Listing of Claims

The following listing of claims replaces any pending claims. Inserted text is shown as underlined ("___") and deleted text is shown as stricken ("—").

1. (Currently Amended) A system for adjusting the frequency response of subwoofer systems comprising:

a user interface configured to receive at least a user-adjustable ~~variables~~ variable, the user-adjustable variable being purely indicative of a main speaker ~~characteristics~~characteristic; and

a compensation circuit configured to produce a desired low-frequency signal from an input signal in response to the user-adjustable ~~variables~~variable.

2. (Currently Amended) The system of claim 1, wherein the main speaker ~~characteristics~~ characteristic ~~comprise~~ comprises a low-frequency characteristics of the main speaker.

3. (Original) The system of 1, wherein the user adjustable variables comprise a low-frequency cutoff frequency.

4. (Original) The system of 1, wherein the user adjustable variables comprise a low-frequency damping factor.

5. (Original) The system of 1, wherein the user adjustable variables comprise a speaker sensitivity factor.

6. (Original) The system of 1, wherein the user adjustable variables comprise an enclosure type.

7. (Original) The system of 1, wherein the user adjustable variables comprise a gain factor.

8. (Currently Amended) A method for adjusting the frequency response of subwoofer systems, comprising the steps of:

~~inputting~~ receiving at least a user adjustable ~~settings~~ setting, the user-adjustable setting being purely indicative of a main speaker ~~characteristics~~characteristic; and

producing a desired low-frequency signal in response to receiving the ~~user~~ user-adjustable ~~settings~~setting.

9. (Currently Amended) The method of claim 8, wherein the main speaker ~~characteristics~~ characteristic ~~comprise~~ comprises a low-frequency characteristics of the main speaker.

10. (Currently Amended) The method of claim 8, wherein the main speaker ~~characteristics~~ characteristic ~~comprise~~ comprises a low-frequency cutoff frequency.

11. (Currently Amended) The method of claim 8, wherein the main speaker ~~characteristics~~ characteristic ~~comprise~~ comprises a low-frequency damping factor.

12. (Currently Amended) The method of claim 8, wherein the main speaker ~~characteristics~~ characteristic ~~comprise~~ comprises a speaker sensitivity factor.

13. (Currently Amended) The method of claim 8, wherein the main speaker ~~characteristics~~ characteristic ~~comprise~~ comprises an enclosure type.

14. (Currently Amended) The method of claim 8, wherein the main speaker ~~characteristics~~ characteristic ~~comprise~~ comprises a gain factor.

15. (Currently Amended) A system for adjusting the frequency response of subwoofer systems, comprising:

means for ~~inputting~~ receiving at least a ~~plurality of user~~ user-adjustable setting, the user-adjustable setting being purely indicative of a main-speaker ~~characteristics~~characteristic;

means for receiving an input signal; and

means for producing a desired low-frequency signal from the input signal in response to the ~~plurality of~~ user adjustable setting.

16. (Original) The system of claim 15, wherein the main speaker characteristics comprise low-frequency characteristics of the main speaker.

17. (Original) The system of claim 15, wherein the means for producing the desired low-frequency signal further comprises means for setting a low-frequency cutoff-

frequency of the main speaker.

18. (Original) The system of claim 15, wherein the means for producing the desired low-frequency signal further comprises means for setting a low-frequency damping factor of the main speaker.

19. (Original) The system of claim 15, wherein the means for producing the desired low-frequency signal further comprises means for setting a gain of the main speaker.

20. (New) A system for adjusting the frequency response of subwoofer systems comprising:

a user interface configured to receive user-adjustable variables, the user-adjustable variables comprising:

a first variable that is purely indicative of a main speaker characteristic; and

a second variable that is not purely indicative of a main speaker characteristic; and

a compensation circuit configured to produce a desired low-frequency signal from an input signal in response to the user-adjustable variables.

21. (New) The system of claim 20, wherein the main speaker characteristic comprises a low-frequency characteristic of the main speaker.

22. (New) The system of 20, wherein the user adjustable variables comprise a low-frequency cutoff frequency.

23. (New) The system of 20, wherein the user adjustable variables comprise a low-frequency damping factor.

24. (New) The system of 20, wherein the user adjustable variables comprise a speaker sensitivity factor.

25. (New) The system of 20, wherein the user adjustable variables comprise an enclosure type.

26. (New) The system of 20, wherein the user adjustable variables comprise a gain factor.

27. (New) A method for adjusting the frequency response of subwoofer systems, comprising the steps of:

receiving user adjustable settings, the user adjustable settings comprising:

a setting that is purely indicative of a main speaker characteristic; and

a setting that is not purely indicative of a main speaker characteristic; and

producing a desired low-frequency signal in response to receiving the user adjustable settings.

28. (New) The method of claim 27, wherein main speaker characteristic comprises a low-frequency characteristic of the main speaker.

29. (New) The method of claim 27, wherein the main speaker characteristic comprises a low-frequency cutoff frequency.

30. (New) The method of claim 27, wherein the main speaker characteristic comprises a low-frequency damping factor.

31. (New) The method of claim 27, wherein the main speaker characteristic comprises a speaker sensitivity factor.

32. (New) The method of claim 27, wherein the main speaker characteristic comprises an enclosure type.

33. (New) The method of claim 27, wherein the main speaker characteristic comprises a gain factor.

34. (New) A system for adjusting the frequency response of subwoofer systems, comprising:

means for receiving user adjustable settings, the user-adjustable settings comprising:

a setting that is purely indicative of a main-speaker characteristic; and a setting that is not purely indicative of a main-speaker characteristic;

means for receiving an input signal; and

means for producing a desired low-frequency signal from the input signal in response to the plurality of user adjustable setting.

35. (New) The system of claim 34, wherein the main speaker characteristic comprises a low-frequency characteristic of the main speaker.

36. (New) The system of claim 34, wherein the means for producing the desired low-frequency signal further comprises means for setting a low-frequency cutoff-frequency of the main speaker.

37. (New) The system of claim 34, wherein the means for producing the desired low-frequency signal further comprises means for setting a low-frequency damping factor of the main speaker.

38. (New) The system of claim 34, wherein the means for producing the desired low-frequency signal further comprises means for setting a gain of the main speaker.